

## Product datasheet for SC113186

### AGPAT3 (NM\_020132) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | AGPAT3 (NM_020132) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | AGPAT3  |
| Synonyms:                 | 1-AGPAT 3; LPAAT-GAMMA1; LPAAT3   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL6</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC113186 sequence for NM_020132 edited (data generated by NextGen Sequencing) |

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ATGGGCCTGCTGGCCTTCTGAAGACCCAGTTCGTGCTGCACCTGCTGGTCGGCTTTGTC
TTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGGCCG
GTCAGCAAGCAGCTCTACCGCCGCTCAACTGCCGCTCGCTACTCACTCTGGNNCAA
CTGGTCATGCTGCTGGAGTGGTGGTCTGCACGGAGTGTACACTGTTACGGACCAGGCC
ACGGTAGAGCGCTTTGGGAAGGAGCAGCAGTCATCATCCTCAACCACAACCTCGAGATC
GACTTCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTGTGGGGAGCTCCAAGGTC
CTCGATAAGAAGGAGCTGCTCTACGTGCCCTCATCGGCTGGNCGTGGNNCTTTCNNNNN
NNTGTGTTCTGCAAGCGAAGTGGGAGGAGACCGGGACACCGTGGTGAAGGGCTGAGG
CGCTGTCCGACTACCCCGAGTACATGTGTTTCTCCTGTACTGCGAGGGGACCGCTTC
ACGGAGACCAAGCACCGGTTAGCATGGAGGTGGCGGCTGCTAAGGGGCTTCCTGTCCCTC
AAGTACCACNNCTGCCGCGACCAAGGGCTTACCACCGCAGTCAAGTGCCTCCGGGGG
ACAGTCGCAGCTGTCTATGATGTAACCCTGAACTTCAGAGGAAACAAGAACCCTCCCTG
CTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCCCTCTG
GAAGACATCCCGCTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAG
AAGGACCGCTCCAGGAGATATAAATCAGAAGGGCATGTTCCAGGGGAGCAGTTTAAG
CCTGCCCGGAGGCCGTGGACCCTCCTGAACTTCTGTCTGGGCCACCATTCTCCTGTCT
CCCTCTTCAGTTTTGTCTTGGGCGTCTTGGCAGCGGATCACCTCTCCTGATCCTGAGT
TTCTTGGGTTTTGTGGGAGCAGCTTCTTTGGAGTTCGCAGACTGATAGGAGTAAGTGA
ATAGAAAAGGCTCCAGCTACGGAAACCAAGAGTTTAAGAAAAAGGAATAA

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Clone variation with respect to NM\_020132.4  
175 a=>n;176 g=>n;177 c=>n;365 c=>a;403 a=>n;409 t=>n;410 a=>n;416 t=>n;417 g=>n;418 g=>n;419 a=>n;420 g=>n;421 a=>n;422 t=>n;610 c=>n;611 t=>n;612 g=>n



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020132 unedited  
AAAAACTTACACCCCGTTGCCTTAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA  
TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG  
CCGCGAATTCGGCAGCAGGGGGCGGCTGCAGGCTTGTCCAGCCGGAAGCCCTGAGGGCAGC  
TGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCTCAGCGAGGGGCCGTG  
CACCCGCTCCTGAGCAGCGCCATGGGCCGTGCTGGCCTTCTGAAGACCCAGTTCGTGCTG  
CACCTGTGGTCGGCTTTGTCTTCTGTTGAGTGGTCTGGTCATCAACTTCGTCCAGCTG  
TGACGCTGGCGCTCTGGCCGGTCAGCAAGCAGCTCTACCGCCGCTCAACTGCCGCCTC  
GCCTACTCACTCTGGAGCCAACCTGGTCATGCTGCTGGAGTGGTGGTCTGCACGGAGTGT  
ACACTGTTACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCACGCAGTCATCATC  
CTCAACCACAACCTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGA  
GTGCTGGGAGCTCCAAGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCTCATCGGC  
TGGACGTGGTACTTTCTGGAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGACCGGGAC  
ACCGTGGTGAAGGGCTGAGGCGCTGTCGGACTACCCCGAGTACATGTGGTTTCTCCTG  
TACTGCGAGGGGACGCGCTTACGGAGACCAAGCACGCGTTAGCATGNGAGTGGCGGCTG  
CTANAGGGCTTCTGTCTCAAGTACANCTGCTGNCGCGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020132 unedited  
NNAATTTAAAGTCTGCTTACTTGTGTTTTGTGTTATTTAGTGATTTGTTTCAGCGCTCA  
TCTCTTCCACCAAACCTGCGCTNTCTGAGACAGGGACCTTAAAGCACCTCACATAGGGTG  
CGCGTCTGGTACTGTGCCGAGTACCAGACAACCAAGTGTCTCACACGGGGGAAGACGA  
TGAAGACAGCAATGGCATCCTTGGGAAGATGGGCAGGAGACCCCATGACACCTGGCACCT  
GGGCCTAAGCTGGGAGGCCAGCGCGTCCCCAGGAGACCAGGCCAGGCTGGGAGCTTG  
ACCGGCCAGACGCCCGTGGGTGGCCTGGGCCCTCCCGCCTGGGAGCCTCCAGTGTGGCG  
CCTGGCTCTGGTGGGTAAACAGGAGCTACAGGCCAGCAATGCCCTTCTGTCTCGGCC  
GGCTCAAGGACTGGGTGCAGAGGGCATCAGCGATGCCAGGCCTAGAATGTGCCTACCCC  
GACAGTGGCCAGCACGGACTGTGGGCTACAGAGTTGCTTCAGCCTGAGCACTCAGCCTGA  
ATTTGGACATAACATCAACTGAATTAAGCTCAGAAGTAGGGTGTAAAGGAAAAAGAAAA  
AAAAAGACTGTTCTGGGATTTATGAATTAATTTAAAAATGTAAAGGAGCTCTCCTCCC  
CTTTTCTTCTGGATGAAAAGCAAAATCCACCCTCCCGCCCCAAAAAATAATCAGAC  
ATTGTGGTGTAGTTTTTATTGCTCTTTAAACTTGGGGTTGAAAAGCACAAAGCTAAGCTG  
TGAGATGGGAAGAAACCATATGAGGTGTGAACCCTGCGCCTGGGCTCCGTCTCCTCACTC  
TAACCTAGGGCTGCCACTTCCCTTGGCTCAATGCCAAATTTTCTTTTATAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020132

**Insert Size:**

4700 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_020132.3</a> , <a href="#">NP_064517.1</a>   |
| <b>RefSeq Size:</b>           | 3649 bp   |
| <b>RefSeq ORF:</b>            | 1131 bp   |
| <b>Locus ID:</b>              | 56894   |
| <b>UniProt ID:</b>            | <a href="#">Q9NRZ7</a>  |
| <b>Cytogenetics:</b>          | 21q22.3   |
| <b>Domains:</b>               | Acyltransferase   |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways   |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is an acyltransferase that converts lysophosphatidic acid into phosphatidic acid, which is the second step in the de novo phospholipid biosynthetic pathway. The encoded protein may be an integral membrane protein. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>        |